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Instructions for use

SIX NEW SPECIES OF *HOMOPTERA* COLLECTED AT OKINAWA BY MR. CHIRO YOHENA

By

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The material collected by Mr. CHIRO YOHENA during the March and April, 1935, was delivered to the author for identification, among which he found six new species of *Homoptera*.

Furthermore the following five known species also are found in his collection:

	Localities
1. <i>Penthimia nitida</i> LETH.	Nago and Shuri
2. <i>Ishidaella albomarginata</i> SIGN.	Izumi
3. <i>Tartessus malayus</i> STÅL	Kina
4. <i>Clovia multilineata</i> STÅL	Shuri
5. <i>Betacixius kumejimai</i> MATS.	Shuri

Family *Membracidae*

1. *Centrotus (Gargara) okinawanus* n. sp.

Closely allied to *C. genistae* F., but differs from it as follows:

♂. Body distinctly larger. Sternum not covered with silvery hair, the hair being somewhat paler than that of the thorax; tegmina with veins in the middle darker, with no fuscous patch on the anterior and posterior margins; abdomen with no narrow yellowish margin on each ventral segment, with silvery hair on the connexivum; genital segment longer than the foregoing, being not yellow at the hind margin, the genital plate longer than the anal tube, pointed towards the apex.

♀. Last ventral segment at the hind margin roundly engulfed.

Length—5 mm. (♂), 5.5 mm (♀).

Hab.—Okinawa; 4 (1 ♂, 3 ♀) specimens were collected at Shuri (17, III, 1935).

Family *Issidae*2. *Gergithus okinawanus* n. sp.

♂. Brownish testaceous with a light greenish shade. Vertex with the posterior margin narrowly white. Frons shallowly leather-like sculptured, the lateral margins paler, the lower margin being white; clypeus very finely shagreened, in the middle somewhat elevated longitudinally. Pronotum in the middle with 4 obsolete longitudinal ridges, the lateral ones being oblique. Scutellum with 4 obsolete longitudinal keels. Tegmina subhyaline, with no marking, the netted veins distinct; the netted veins of the wings being visible through. Abdomen dark brown. Legs concolorous with the body, the anterior tibiae being somewhat darker.

Length—5 mm. (♂).

Hab.—Okinawa; one male specimen was collected at Shuri (7, IV, 1935).

3. *Sarima yohenai* n. sp.

Allied somewhat to *S. rinklhonis* MATS. from Formosa.

♂. Brownish testaceous. Vertex scattered with paler obsolete granules. Frons darker, with numerous paler granules, some of them being continuous, at the end and at the sides paler in colour; clypeus black at the apex, from which sending 4 short fuscous stripes towards the frontal suture, at the suture narrowly black. Pronotum with a few concolorous granules, the central keel which continues to the scutellum reddish. Tegmina pale brownish, with a pinkish shade, at the extreme apices narrowly pinkish; veins being testaceous, at the costa somewhat paler in colour. Wings dark brown. Above the middle coxae pleurae with each a pinkish spot. Abdomen above black, at the venter pale olivaceous. Legs concolorous with the body, the femora and tibiae with each 2 narrow blackish stripes.

Length—5 mm. (♂).

Hab.—Okinawa; one male specimen was collected at Shuri (17, III, 1935).

Family *Cercopidae*4. *Aphrophora okinawana* n. sp.

Allied to *A. alni* FALL., but the body is much smaller, and in detail it differs as follows:

♂. Head with the middle keel just behind the apical field obliterated; the middle keel of the pronotum sharply elevated, being lower at the posterior $\frac{1}{3}$, at the anterior $\frac{1}{3}$ of the same distinctly excavated, especially at the callous

part; scutellum more deeply excavated; the white oblique band of tegmina not constricted at the middle, with a conspicuous white patch near the middle of the discoidal cell, so that the middle black band seems to be in the same breadth throughout; genital plates much shorter than the anterior segment, conical shaped, at the apices pointed, with a narrow triangular slit between them, the cauda long and pointed at the apex.

♀. Genital cushions with each a sharp incurved longitudinal keel.

Length—8.5 mm. (♂), 9 mm. (♀).

Hab.—Okinawa; 3 (2 ♂, 1 ♀) specimens were collected at Nago (4, IV, 1935).

Family *Cixiidae*

5. *Cixius yohennai* n. sp.

♂. Body above chestnut brown, the keels of the head and pronotum yellowish; scutellum at the sides and beneath yellowish brown, the keels of frons being yellowish, at their extreme margins narrowly brown; gena and tempora chestnut brown. Tegmina subhyaline, with a pale yellowish shade, the veins yellowish; granules and cross-veins black, the granules of the interior veins of clavus near the base being much larger; stigma yellowish brown; granules with no hair. Abdomen at the venter dark brown, at the sides and the genital segment testaceous. Genital segment beneath at the hind margin quadrately emarginated, with a small tooth in the middle, the claspers broad to the middle, nearly straight and hatchet-shaped towards apices, broadly diverging each other; appendage of the anal tube at the apex clavate, downwardly curved, with a sharp tooth on each side.

Length—6 mm. (♂).

Hab.—Okinawa; 2 male specimens were collected at Kumejima (29. III, 1935).

6. *Cixius okinawanus* n. sp.

♂. Testaceous; scutellum black with the lateral keels reddish brown. Vertex darker, the middle keel not reaching to the anterior ridge. Keels of frons somewhat paler than the ground colour. Tegmina hyaline, with a yellowish shade, the veins and granules yellowish testaceous, at the costa with 3 black spots equidistantly in the middle, the cross-veins near the apices infuscated; the granules with no hair.

Abdomen at the venter black, each segment at the hind margin narrowly testaceous. Genital opening testaceous, at the hind margin roundly engulfed,

the claspers lamellate, somewhat curved upwardly, towards the apices broadened and ovately rounded; appendage of the anal tube at the sides with each a rounded lobe.

♀. Differs from the male in having a large dark brown nebulous patch in the middle and at the apical $\frac{1}{3}$ with a large ×-shaped concolorous marking; granules of the tegmina dark brown; ovipositor protrudes a little beyond the anal tube.

Length—6 mm. (♂), 6.5 mm. (♀).

Hab.—Okinawa; 5 (3 ♂, 2 ♀) specimens were collected at Shuri (17, III, 1935).

***Betacixius kumejima* MATS.**

Betacixius kumejima MATSUMURA, Ann. Zool. Jap., VIII, p. 415 (1914).

As the genital organ of this male has not been yet described, so on this occasion the author gives its diagnosis:

Outline of the genital segment resembles that of *Kuvera flaviceps* MATS., but the claspers dark brown, linear, horn-like upturned, becoming slenderer towards the apices, where bluntly pointed, somewhat diverging each other; appendage of the anal tube much elongated, at the apex rounded, being downwardly curved.

Hab.—Okinawa; one male specimen was collected at Shuri (27, VIII, 1935). Three female specimens were collected at Kumejima in 1914 by K. KUROIWA, which are now preserved in the Museum of the Hokkaido Imperial University at Sapporo.